

U.S. Ser. No. 09/955,253
Applicants: Kreutz et al.

Atty. Dkt. B06090-D

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24. A depilation apparatus comprising
a housing,
a depilation member for gripping hairs on human skin and pulling the hairs from the skin,
and
a vibration member for exerting mechanical vibration on the skin to thereby provide an
anaesthetizing effect on the skin while the hairs are being pulled from the skin by the depilation
member, both the depilation member and the vibration member provided in the housing,
characterized in that
the vibration member comprises flexible protrusions for contacting the skin which are
disposed on a carrier, and
means for vibrating the carrier to thereby vibrate the flexible protrusions and thereby exert
mechanical vibrations on the skin where these vibrating flexible protrusions contact the skin.
25. A depilation apparatus as claimed in claim 24, characterized in that the protrusions are
disposed in a uniform pattern.
26. A depilation apparatus as claimed in claim 25, wherein the protrusions have, adjacent a
distal free end thereof, a conical shape.
27. A depilation apparatus as claimed in claim 25, wherein the protrusions each have a
rounded end portion.
28. A depilation apparatus as claimed in claim 25, wherein the protrusions comprise a resilient
plastics material.
29. A depilation apparatus as claimed in claim 24, characterized in that each of the protrusions
has, adjacent a distal free end thereof, a conical shape.
30. A depilation apparatus as claimed in claim 29, wherein the protrusions each have a
rounded end portion.

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31. A depilation apparatus as claimed in claim 29, wherein the protrusions comprise a resilient plastics material.

32. A depilation apparatus as claimed in claim 24, characterized in that the protrusions each have a rounded end portion.

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33. A depilation apparatus as claimed in claim 32, wherein the protrusions comprise a resilient plastics material.

34. A depilation apparatus as claimed in claim 24, characterized in that the protrusions comprise a resilient plastics material.

35. A depilation apparatus as claimed in claim 24, characterized in that the means for vibrating the carrier comprises a first member which is pivotable about a first axis, an eccentric member having a second axis extending substantially parallel to the first axis and which comprises a mounting member disposed eccentrically relative to the second axis, and a mechanical spring biasing the first member relative the mounting member.

36. (Amended). A depilation apparatus as claimed in claim 35, characterized in that the mechanical spring is a helical spring extending substantially perpendicular to the first axis.

Kindly add the following new claims:

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--37. (New) A depilation apparatus comprising

a housing,

a depilation member for gripping hairs on human skin and pulling the hairs from the skin,
and

a vibration member for exerting mechanical vibration on the skin to thereby provide an anaesthetizing effect on the skin while the hairs are being pulled from the skin by the depilation member, both the depilation member and the vibration member provided in the housing,

characterized in that

the vibration member comprises protrusions for contacting the skin which are disposed on a carrier, and

the carrier is resiliently mounted to a means for vibrating the carrier to thereby vibrate the protrusions and thereby in operation the protrusions flexibly exert mechanical vibrations on the skin where these vibrating protrusions contact the skin.

38. (New). A depilation apparatus as claimed in claim 37, characterized in that the protrusions are disposed in a uniform pattern.

39. (New). A depilation apparatus as claimed in claim 38, wherein the protrusions have, adjacent a distal free end thereof, a conical shape.

40. (New). A depilation apparatus as claimed in claim 38, wherein the protrusions each have a rounded end portion.

41. (New). A depilation apparatus as claimed in claim 38, wherein the protrusions comprise a resilient plastics material.

42. (New). A depilation apparatus as claimed in claim 37, characterized in that each of the protrusions has, adjacent a distal free end thereof, a conical shape.

43. (New). A depilation apparatus as claimed in claim 42, wherein the protrusions each have a rounded end portion.

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44. (New). A depilation apparatus as claimed in claim 42, wherein the protrusions comprise a resilient plastics material.

45. (New). A depilation apparatus as claimed in claim 37, characterized in that the protrusions each have a rounded end portion.

46. (New). A depilation apparatus as claimed in claim 45, wherein the protrusions comprise a resilient plastics material.

47. (New). A depilation apparatus as claimed in claim 37, characterized in that the protrusions comprise a resilient plastics material.

48. (New). A depilation apparatus as claimed in claim 37, characterized in that the means for vibrating the carrier comprises a first member which is pivotable about a first axis, an eccentric member having a second axis extending substantially parallel to the first axis and which comprises a mounting member disposed eccentrically relative to the second axis, and a mechanical spring biasing the first member relative the mounting member.

49. (New). A depilation apparatus as claimed in claim 48, characterized in that the mechanical spring is a helical spring extending substantially perpendicular to the first axis.

50. (New). A depilation apparatus comprising
a housing,
a depilation member for gripping hairs on human skin and pulling the hairs from the skin,
and
a vibration member for exerting mechanical vibration on the skin to thereby provide an anaesthetizing effect on the skin while the hairs are being pulled from the skin by the depilation member, both the depilation member and the vibration member provided in the housing,
characterized in that

the vibration member comprises flexible protrusions for contacting the skin which are disposed on a carrier, and

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the vibration member vibrates while the carrier is cyclically brought towards and away from the skin during operation of the depilator apparatus to thereby vibrate the flexible protrusions and thereby exert mechanical vibrations on the skin where these vibrating flexible protrusions contact the skin.

51. (New). A depilation apparatus as claimed in claim 50, characterized in that the protrusions are disposed in a uniform pattern.

52. (New). A depilation apparatus as claimed in claim 51, wherein the protrusions have, adjacent a distal free end thereof, a conical shape.

53. (New). A depilation apparatus as claimed in claim 51, wherein the protrusions each have a rounded end portion.

54. (New). A depilation apparatus as claimed in claim 51, wherein the protrusions comprise a resilient plastics material.

55. (New). A depilation apparatus as claimed in claim 50, characterized in that each of the protrusions has, adjacent a distal free end thereof, a conical shape.

56. (New). A depilation apparatus as claimed in claim 55, wherein the protrusions each have a rounded end portion.

57. (New). A depilation apparatus as claimed in claim 55, wherein the protrusions comprise a resilient plastics material.

58. (New). A depilation apparatus as claimed in claim 50, characterized in that the protrusions each have a rounded end portion.

59. (New). A depilation apparatus as claimed in claim 58, wherein the protrusions comprise a resilient plastics material.

60. (New). A depilation apparatus as claimed in claim 50, characterized in that the protrusions comprise a resilient plastics material.

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61. (New). A depilation apparatus comprising

a housing,

a depilation member for gripping hairs on human skin and pulling the hairs from the skin,
and

a vibration member for exerting mechanical vibration on the skin to thereby provide an
anaesthetizing effect on the skin while the hairs are being pulled from the skin by the depilation
member, both the depilation member and the vibration member provided in the housing,

characterized in that

the vibration member comprises protrusions for contacting the skin which are disposed on
a carrier, and

means for vibrating the carrier to thereby vibrate the protrusions and thereby exert
mechanical vibrations on the skin where these vibrating protrusions contact the skin.

62. (New). A depilation apparatus as claimed in claim 61, characterized in that the protrusions are
disposed in a uniform pattern.

63. (New). A depilation apparatus as claimed in claim 62, wherein the protrusions have, adjacent
a distal free end thereof, a conical shape.

64. (New). A depilation apparatus as claimed in claim 62, wherein the protrusions each have a
rounded end portion.

65. (New). A depilation apparatus as claimed in claim 62, wherein the protrusions comprise a
plastics material.

66. (New). A depilation apparatus as claimed in claim 61, characterized in that each of the
protrusions has, adjacent a distal free end thereof, a conical shape.

67. (New). A depilation apparatus as claimed in claim 66, wherein the protrusions each have a
rounded end portion.

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68. (New). A depilation apparatus as claimed in claim 66, wherein the protrusions comprise a plastics material.

69. (New). A depilation apparatus as claimed in claim 61, characterized in that the protrusions each have a rounded end portion.

70. (New). A depilation apparatus as claimed in claim 69, wherein the protrusions comprise a plastics material.

71. (New). A depilation apparatus as claimed in claim 61, characterized in that the protrusions comprise a plastics material.

72. (New). A depilation apparatus as claimed in claim 61, characterized in that the means for vibrating the carrier comprises a first member which is pivotable about a first axis, an eccentric member having a second axis extending substantially parallel to the first axis and which comprises a mounting member disposed eccentrically relative to the second axis, and a mechanical spring biasing the first member relative the mounting member.

73. (New). A depilation apparatus as claimed in claim 72, characterized in that the mechanical spring is a helical spring extending substantially perpendicular to the first axis. --